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AMENDMENT

In the Claims

- 1-39. (Cancelled)
- 40. (Currently amended) A method for increasing anhydrofructose levels in a plant or part thereof, the method comprising introducing a nucleic acid encoding α -1,4-glucan lyase in the plant or part thereof, wherein the α -1,4-glucan lyase is expressed and acts on a glucan substrate present in the plant or part thereof to yield increased levels of anhydrofructose in the plant or part thereof, wherein the α -1,4-glucan lyase comprises an amino acid sequence having at least 75% sequence identity to SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5 or SEQ ID NO:6.
- 41. (Allowed) The method of claim 40, further comprising preparing from said plant or part thereof a foodstuff.
- 42. (Allowed) The method of claim 40, wherein the α-1,4-glucan lyase comprises SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5 or SEQ ID NO:6.
- 43. (Allowed) The method of claim 40, wherein the nucleic acid encoding α -1,4-glucan lyase comprises SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11 or SEQ ID NO:12.
- 44. (Allowed) The method of claim 40, wherein the nucleic acid comprises SEQ ID NO:7.
- 45. (Allowed) The method of claim 40, wherein the α -1,4-glucan lyase has at least 75% identity to the sequence shown as SEQ ID NO: 1.
- 46. (Allowed) The method of claim 40, wherein the α -1,4-glucan lyase has at least 85% identity to the sequence shown as SEQ ID NO: 1.
- 47. (Allowed) The method of claim 40, wherein the α -1,4-glucan lyase has at least 90% identity to the sequence shown as SEQ ID NO: 1.
- 48. (Allowed) The method of claim 40, wherein the plant or part thereof is a fruit or a vegetable.
 - 49. (Allowed) The method of claim 40, wherein the plant is grape.
 - 50. (Allowed) The method of claim 40, wherein the plant is potato.
 - 51. (Allowed) The method of claim 41, wherein the foodstuff is a beverage.

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- 52. (Allowed) The method of claim 51, wherein the beverage is an alcoholic beverage.
 - 53. (Allowed) The method of claim 51, wherein the beverage is wine.
- 54. (Currently amended) A method of preparing a foodstuff comprising anhydrofructose, said method comprising the steps of:
 - a) introducing a nucleic acid encoding α-1,4-glucan lyase in a plant or part thereof, wherein the α-1,4-glucan lyase is expressed and anhydrofructose acts on a glucan substrate present in the plant or part thereof to yield anhydrofructose in the plant or part thereof, and [[;]] wherein the α-1,4-glucan lyase comprises an amino acid sequence having at least 75% sequence identity to SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5 or SEQ ID NO:6; and
 - b) preparing a foodstuff comprising the plant or part thereof, whereby the foodstuff comprises the anhydrofructose yielded in step a).
- 55. (Allowed) The method of claim 54, wherein the α-1,4-glucan lyase comprises SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5 or SEQ ID NO:6.
- 56. (Allowed) The method of claim 54, wherein the nucleic acid encoding α -1,4-glucan lyase comprises SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11 or SEQ ID NO:12.
- 57. (Allowed) The method of claim 54, wherein the nucleic acid comprises SEQ ID NO:7.
- 58. (Allowed) The method of claim 54, wherein the α -1,4-glucan lyase has at least 75% identity to the sequence shown as SEQ ID NO: 1.
- 59. (Allowed) The method of claim 54, wherein the α -1,4-glucan lyase has at least 85% identity to the sequence shown as SEQ ID NO: 1.
- 60. (Allowed) The method of claim 54, wherein the α -1,4-glucan lyase has at least 90% identity to the sequence shown as SEQ ID NO: 1.
- 61. (Allowed) The method of claim 54, wherein the plant or part thereof is a fruit or a vegetable.
 - 62. (Allowed) The method of claim 54, wherein the plant is grape.
 - 63. (Allowed) The method of claim 54, wherein the plant is potato.
 - 64. (Allowed) The method of claim 54, wherein the foodstuff is a beverage.

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- 65. (Allowed) The method of claim 64, wherein the beverage is an alcoholic beverage.
 - 66. (Allowed) The method of claim 64, wherein the beverage is wine.